EuroMed 2026 — Desalination, Water Reuse and the Environment
22–25 June 2026, Marrakech, Morocco

PROVISIONAL CONFERENCE PROGRAMME

PRE-CONFERENCE DAY

Monday morning 22 June 2026

9:00–17:30 Registration
9:00–13:00 Workshop Desalination and Agriculture Applications, including coffee break. Co-organised by IWRI and OCP Green Water.
13:00–14:00 Lunch
14:00–17:40 Technical sessions

Monday afternoon 22 June 2026

	Session 1 **Brine valorisation I**	**Session 2** **Novel membranes**	**Session 3** **Fouling I**	**Session 4** **Advanced wastewater treatment I**
14:00	**54** A global outlook of the desalination industry and state-of-the-art technologies for brine valorisation ***Carmelo Morgante****, Marta Herrero-Gonzalez, Julio Lopez Rodriguez, Jan Imholze, Vittorio Boffa, Raquel Ibañez Mendizabal, José Luis Cortina Pallas*	**164** Integrated ceramic and polymeric membrane treatment of gas field produced water for beneficial reuse ***Viktor Kochkodan****, Andrius Stanulis, Nabil Tarhouni, Darren Oatley-Radcliffe, Andrew Barron, Linso Vargnese, Suhur Saeed, Khaled Mahmoud*	**86** Beating biofouling: How a revised cleaning and pretreatment strategy restored RO performance *Gabriele Brummer*	**89** Spinel ferrite nanoparticles for wastewater treatment: synthesis routes, mechanistic insights, and environmental applications ***Hamza Guenoua****, Abdessamad Belgada, Anas Aguelmous*
14:20	**73** Utilizing desalination brine to capture CO_2 and simultaneously produce high-value $MgCO_3$ and vaterite-type $CaCO_3$ ***Abdallatif Abdalrhman****, Seungwon Ihm, Eslam Alwaznani, Mohammad Talibi, Myoung-Jin Kim*	**188** Zeolite X/polystyrene mixed matrix membrane layer deposited on pyrophyllite support for efficient dye removal ***Sanaa Adlane****, Jamyla Naim, Manal Idgharnane, Ahlam Essate, Brahim Achiou, Abdellah Aaddane, Mohamed Ouammou, Saad Alami Younssi*	**99** Sustainable scale control and biofouling mitigation in seawater reverse osmosis using aKua® 100 and data-driven dose optimization ***Isabel Borrego-Jimenez****, Jorge Agenjo-Monge, Lorena Welte-Hidalgo, Oscar Salmeron-Martinez*	**206** Advanced treatment technologies for microplastic and emerging contaminant removal to enhance wastewater quality ***Patricia Terrero****, Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Daniel Prats, María José Moya, Samuel Núñez*
14:40	**97** Integrated brine mining platform: Turning desalination waste into strategic resources ***Cesar Nieto Delgado****, Piotr Dlugolecki, Chakravarthy Gudipati, Philip Hart*	**132** Low-cost graphene oxide composite membranes cross-linked with urea: a sustainable solution for textile dye removal ***Manal Idgharnane****, Jamyla Naim, Sanaa Adlane, Majda Breida, Mohamed Ouammou, Martin Conda-Sheridan, Saad Alami Younssi, Brahim Achiou*	**78** Influence of concentration polarization on RO membrane service life ***Haytham Abdelfatah****, Eli Oklejas*	**171** A fluorescence-based artificial neural network for online control of organic micropollutants during quaternary wastewater treatment ***Paolo Roccaro****, Filippo Fazzino, Erica Gagliano, Domenico Santoro*
15:00	**163** Roadmap to deploy a digital twin for accelerating brine valorisation: from pilot testing to model-based optimisation and scale-up ***Yanira López López****, Angel Rivero Falcon, José Antonio Carta, Baltasar Peñate Suarez, Pedro Jesus Cabrera Santana*	**147** Ultra-low dP TFN RO membrane for improved fouling resistance and cost efficiency in industrial wastewater treatment ***Eugene Rozenbaoum****, Peter Ingarra, Adrian Brozell, Roy Daly, Richard Newman*	**271** Independent pilot evaluation of electrochemical feedwater conditioning for energy and fouling reduction in seawater reverse osmosis *Chris Rose*	**212** Non-conventional water resources in agriculture: advances, challenges and practical recommendations ***Patricia Terrero,*** *Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Francisco José Maestre*
15:20	**7** Sustainable lithium recovery from brine using a deep eutectic solvent-functionalized keratin/cellulose sponge ***Fawzi Banat****, Mohammed Abujayyab, Shadi Hasan*	**60** Electrospun PVDF@MIL-53(Fe) metal organic framework: membranes for potential water treatment ***Rachid Bouhfid****, Hamza Louhibi*	**279** Optimizing coagulation dose, pH and rapid mixing with MFI-UF to reduce particulate/colloidal fouling in RO/NF *Yiman Liu, Abrar Adem, Afrasiab Yameen, Nirajan Dhakal, Peter Vollaard, Rinnert Schurer, Begüm Tanis, Jan C. Schippers,* ***Maria D. Kennedy***	

15:40–16:00 Coffee break

	Session 5 Brine valorisation II	Session 6 Mass transfer and transport through membranes	Session 7 Fouling II	Session 8 Advanced wastewater treatment II
16:00	**209** The CARMEn project: A novel circular approach to recover critical raw materials and energy from spent seawater brines *Giuseppe Scelfo,* ***Giuseppe Battaglia****, Michela Cardella, Antonia Filingeri, Andrea Culcasi, Francesco Volpe, Lorenzo Craveri, Erica Bertozzi, Alberto Tiraferri, Andrea Cipollina, Giorgio Micale*	**10** Direct numerical simulation of flow and mass transfer in feed spacer-filled channels of membrane separation processes ***Santiago Cespedes****, Cristian Picioreanu, Bastiaan Blankert*	**93** Use of membrane concentration polarization (CP) to monitor and control membrane biological fouling in SWRO desalination ***Harvey Winters****, Eli Oklejas*	**70** Treatment of produced water using a pilot-scale advanced electrochemical oxidation unit ***Abdullah Basaleh****, Bassam Tawabini*
16:20	**180** Concentration of saline water in a hybrid membrane system ***Marian Turek****, Krzysztof Mitko*	**66** Discrepancy between salinity and pH on Na+ rejection: Experimental and modelling insights ***Fernan David Martinez Jimenez****, Bastiaan Blankert, Cristian Picioreanu*	**35** Real-time feed water assessment for biofouling control in SWRO plants ***Amr Ahmed****, Sultan Ahmed, Aleksejs Zolotarjovs, Ahmed S. Alghamdi, Girts Ozolins, Gatis Tunens*	**105** Ultrafiltration and nanofiltration for the recovery of phenolic/tannic compounds and water from the cork processing wastewaters ***Maria Noberta de Pinho****, Miguel Minhalma*
16:40	**173** Annual assessment of a hybrid CAES–PV–RO system with brine re-use ***Aarón Raúl Poyatos Bakker****, Lidia Roca, Cintia Gómez-Serrano, F. Gabriel Acien, Patricia Palenzuela*	**154** Fundamental challenges to solution-diffusion theory of water transport across membrane *Lianfa Song*	**198** Unveiling the dynamics of RO membrane fouling: A new in-situ visualization methodology for biofouling and colloidal fouling ***Louise Ratel****, Noshin Karim, Nitish Sarker, Amy Bilton, Catherine Charcosset*	**59** Eco-friendly kaolinite–alginate beads adsorbents for advanced water treatment applications ***Abderrahim Rahioui****, Rachid Bouhfid*
17:00	**129** Performance assessment of forward osmosis for brine concentration with multi-effect distillation regeneration stage ***Bartolomé Ortega Delgado****, Patricia Palenzuela, Lourdes García-Rodríguez, Guillermo Zaragoza*	**200** Modeling water flux in forward osmosis under concentration polarization limitations ***Abdulrahman Alalawi****, Ibrahim Almutaz*	**21** Biofouling in seawater reverse osmosis (SWRO) plants: Experiences from the eastern coast of Saudi Arabia ***Ghulam Mohammad Mustafa****, Eslam Saleh Break AlWaznani*	**119** An integrated RO–NF process for the concentration of volatile fatty acid mixtures: modeling and simulation ***Omar Atiq****, Serena Bandini, Marco Giacinti Baschetti*
17:20	**193** Brine valorization through selective nanofiltration and membrane brine concentration: Operational performance evaluation *Guillem Gilabert-Oriol, Seungwon Ihm, Omar Al-Raqibah, Eslam Al-Waznani, Mohammed Al-Talibi, Claudia Niewersch, Dean Welsh*	**276** Diving into the transfer of small organics in seawater reverse osmosis desalination: Insights and cascade strategies ***Fatima Zohra Charik,*** *Saad Alami Younssi, Murielle Rabiller-Baudry*	**166** Extension of cartridge filter lifespan trough chemical cleaning ***Irene Ochoa Marchán****, Paul Osthuizen, Domingo Zarzo, Patricia Terrero, Rafael Buendía*	**43** Custom tailored loose nanofiltration membrane incorporating cationic/zwitterionic polymer for enhanced separation performance ***Zeeshan Arshad****, Nadeem Baig, Shaikh Asrof Ali*
17:40	**221** Closing the brine valorisation cycle at DESAL+ Living Lab via an integrated approach to high-purity salt production ***Ángel Rivero Falcón****, Yanira López López, Baltasar Peñate Suárez, Noemi Melián Martel*	**82** Carrier-ion interactions in membranes enable efficient nitrate and chloride separation in wastewater ***Fei Liu****, Wan Chao, Yang Zhang*	**167** Biofouling in SWRO desalination plants: operational impact, detection and control ***Erineos Koutsakos****, Menahem Priel*	**184** Computer vision-based detection and classification of protozoa for water quality monitoring ***Jover Erreyes Pilozo****, Cosmin Koch Ciobotaru, Ana Maria Jimenez Banzo*

18:00–19.00 Poster pitches

19.45–21:00 Welcome reception

Tuesday morning 23 June 2026

8:00–09:00 Registration
9:00–11:00 Official opening
11:00–11:40 Walk around the exhibition and coffee break
11:40–12:50 Panel session on the Future of Desalination in Morocco. Co-organised by EDS, IWRI, OCP Green Water and ONEE.
12:50–13:50 Lunch

Tuesday afternoon 23 June 2026

	Session 9 Brine valorisation III	Session 10 Energy efficiency	Session 11 Fouling and scaling	Session 12 Brackish water desalination
13:50	**295** Towards sustainable desalination in Morocco: brine valorization in the agri-food industry as a circular economy lever ***Anas Aguelmous**, Abdessamad Belgada, Nawal Sifa*	**225** Design and implementation of the DESALRO 2.0 ® concept: The most energy efficient seawater reverse osmosis desalination plant *Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, **Sigrid Arenas-Urrea**, Lourdes García-Rodríguez, Rafael González-Almenara*	**254** Impact of renewable-driven intermittent operation on scaling in falling film evaporators: role of tube material selection ***Heike Glade**, Tom Ruiter*	**235** From pilot-scale operation to technoeconomic and life cycle assessment for hybrid brackish water desalination ***Arianna Tariqi**, Reema Shinh, Varinia Felix, V icky Karanikola, Kerri Hickenbottom*
14:10	**53** Selective magnesium recovery from seawater-derived solutions through recyclable metal-organic framework glass-based adsorbents ***Carmelo Morgante**, Samraj Mollick, Morten Mattrup Smedskjær, Vittorio Boffa*	**69** Efficiency of reverse osmosis plants from a pumping equipment perspective ***Isaac Vera Olivares**, Miguel Herrero, Jorge Muñagorri*	**24** Techno-economic impacts of antiscalant selection on RO membrane performance in inland desalination systems ***Ali Alshami,** Christopher Buelke*	**45** Sustainable brackish water desalination via single forward osmosis process with green membrane management ***Ganghyeon Jeong**, Am Jang, Hongrae Im*
14:30	**199** State-of-the-art nanofiltration and electrodialysis technologies for direct lithium extraction from SWRO brine ***El Houssine Ghoulam**, Abdessamad Belgada, Rachid Bouhfid, Youssef-Amine Boussouga*	**211** High-pressure pumps – Total cost of ownership analysis *Sebastian Liebs*	**113** The limitation of saturation indices in antiscalant projection software *Max Fazel, Daniela Vidal, **Mike Sinfield***	**87** Yearlong field trial of a brine reuse architecture for point-of-use, reverse osmosis systems ***Melissa Brei,** Ian Manning, Natasha Wright, Amos Winter V*
14:50	**125** Can conventional desalination technologies adapt to recover critical elements from the EoL lithium-ion battery recycling industry? ***Marco Malaguti**, Simón Díaz-Quezada, Michelle Trinh Ho, Sofie Kjølby Niss, Antonio Peñas-Sanjuán, Pedro Navarrete-Segado, Aamer Ali, Cejna Anna Quist-Jensen*	**121** Use of variable speed drives on main pumps in large SWRO plants: Technical and economical considerations *Antonio de la Torre*	**203** Polymeric antiscalants in desalination: Characterization and biofouling potential in seawater ***Maria Camila Albarracin**, Graciela Gonzalez-Gil, Johannes Vrouwenvelder*	**280** Key performance and energy challenges in small scale brackish water desalination systems *Youssef-Amine Boussouga*
15:10	**195** CO_2 recovery from reverse osmosis brines through membrane contactors ***Lorenzo Ventimiglia**, Giuseppe Battaglia, Maria Jose Lujan Facundo, Fabrizio Vicari, Maria Amparo Bes Pia, Alessandro Tamburini, Andrea Cipollina, Jose Antonio Mendoza Roca, Giorgio Micale*	**213** Energy and cost optimization in CCRO and FO-RO water reuse systems *Sebastian Liebs, **Georg Herborg**, Amogh Sharma*	**155** A more effective fouling characterization method for feedwater to reverse osmosis desalination processes *Lianfa Song*	**115** Lessons learned from the operation of the world's largest reversal electrodialisys (EDR) plant for brackish water treatment ***Fernando Valero**, Pere Emiliano*
15:30–15:50 Coffee break				

Tuesday afternoon 23 June 2026

	Session 13 Brine valorisation IV	Session 14 Solar desalination	Session 15 Osmotic processes for brine concentration	Session 16 Advancements in pretreatment
15:50	**201** Energetic evaluation of advanced pressure-driven desalination technologies for efficient industrial brine concentration ***Christine Kleffner**, Tim Santen, Gerd Braun, Yuliya Schiesser*	**22** Evacuated-tube solar collector with embedded vacuum-assisted sweeping-gas membrane distillation for efficient solar desalination ***Atia E. Khalifa**, Mohammad Abu Abbas, Mohamed Rabie*	**230** Techno-economic assessment of high-recovery seawater reverse osmosis (SWRO) based on osmotically assisted reverse osmosis (OARO) ***Juan I. Pinaglia-Villalón**, Rafael González-Almenara, Guillem Gilabert-Oriol, Rolando Bosleman, Juan Cifuentes, Lourdes García-Rodríguez*	**56** Evaluation of optimal operational conditions of a multimedia filter for seawater pretreatment ***Ratul Das**, Yasmeen Nadreen, Graciela Gonzalez Gil, Ruben Gomez, Jeremy Biddle, Johannes Vrouwenvelder*
16:10	**117** Recovery of salts from brackish water RO brines through physicochemical techniques: experimental evaluation ***Rafael Buendía**, Domingo Zarzo*	**49** Performance assessment of a solar-driven vacuum-assisted sweeping gas membrane distillation system with bubble column dehumidifier *M**ohammad Abu Abba**s, Atia Khalifa*	**76** Modelling and validation of OARO for NaCl brine and its role in ZLD ***Vinay Narayan Hegde**, Joachim Went, Mohammad Alwaz Khan, Joachim Koschikowski, Werner Platzer, Sven-Uwe Geissen*	**259** Variable-property mass transfer modeling to optimize ultrafiltration pretreatment for high-recovery RO desalination ***Mohammad Alizadehfard**, Nader Rahemi, Somayeh Allahyari, Pedram Sadr*
16:30	**245** Nutrients recovery from wastewater centrate via struvite precipitation with brine-derived magnesium hydroxide ***Ferdinando Domenico Miciletta**, Samuel Navajas-Valiente, José Antonio Mendoza Roca, Amparo Bes Pia, Giuseppe Battaglia, Alessandro Tamburini, Andrea Cipollina*	**84** Design and testing of a solar desalination unit for emergency conditions ***Gabriele Copetti**, Francesco Picarelli, Matteo Morciano, Matteo Fasano, Alberto Tiraferri*	**303** Osmotically assisted reverse osmosis for high-salinity brine management: Recent advances and future technology development needs *Basel Abusharkh*	**111** Data-driven optimization of ultrafiltration operations using DuPont's ultrafiltration operations advisor *David Romero-Puyal, Gerard Massons, Guillem Gilabert-Oriol, Leaelaf Hailemariam, Sylvia Insogna, Santhosh Ramalingam, Ankit Gupta, Amrita Panjwani*
16:50	**278** Water and ion transport properties of high-pressure nanofiltration membranes for brine treatment ***Seoyeon Lee**, Minji Je, Yeosong Jeong, Juyeong Lee, Yongjun Choi, Sangho Lee*	**36** Concentrating solar power (CSP) assisted FO hybrid systems for desalination of seawater: a preliminary study ***Ahmed Al-Ghamdi**, Sultan Ahmed, Amro Mahmoud, Hajar Albutuwaybh, Jenan Almadeh*	**109** Brine concentration with low salt rejection reverse osmosis membranes *Guillem Gilabert-Oriol, Angels Tejero, Claudia Niewersch, Caleb Funk, Steve Jons*	**226** Assessment of next generation high area ultrafiltration membrane as seawater desalination pretreatment *Daniel García-Huertas, Michael Hoffmann, Christian Staaks, Guillem Gilabert-Oriol, **Olga Ferrer Mallén***
17:10	**140** Pilot scale production of magnesium carbonates from desalination brines ***Michela Cardella**, Giuseppe Battaglia, Giuseppe Lodato, Fabrizio Vicari, Alessandro Tamburini, Andrea Cipollina, Giorgio Micale*	**16** Life cycle assessment of solar- and grid-powered decentralized reverse osmosis and membrane distillation systems *Chakravarthy Gudipati, Badr Mohamed, **Noora Almarzooqi**, Sara Alzaabi, Philip Hart, Yousif Alhammadi*	**239** Maven brine mining plant – world 1st commercial OARO project: HPP & ERD on-site performance results *Sebastian Liebs, **Francisco Jimenez Castellanos***	**159** Hybrid ferrate coagulation/UF pretreatment for biofouling control during algal blooms *Abdullah Alshahria, Mohammed Obaid, **Abdulah Dehwah**, Thomas Missimer, Muhammad Ali, Noreddine Ghaffour*
17:30		**241** Can off-grid desalination scale globally? Insights from a techno-economic and life-cycle analysis ***Varinia Viridiana Felix Parra**, Matthew Malaker Shingler, Robert Norwood, Jeb Shingler, Reema Shinh, Kerri Hickenbottom*	**218** Evaluation of low salt rejection RO membranes prepared by controlled oxidation of SWRO membranes ***Almoatasem Alaufi,** Gaetan Blandin*	**123** Brackish water with arsenic: comparing aerobic and anaerobic treatment ***Timon Rijnaarts**, Tim Van Dijk, Friso Snijders, Roy Duijnmaijer, Teun De Zeeuw, Patrick van der Wens, Jasper Verberk*

18:00–19.00 Poster pitches

Wednesday morning 24 June 2026

	Session 17 Electromembrane technologies	Session 18 Membrane distillation I	Session 19 Innovations in reverse osmosis	Session 20 Advancements in pretreatment II
8:30	**135** Brine valorization using bipolar membrane electrodialysis: magnesium and calcium scaling with monovalent selective membranes ***Daniel Kelly Coto**, Ruben Halfwerk, Leonardo Gutierrez, Jan Post, Emile Cornelissen*	**98** Study of a simultaneous cooling and desalination system using CO_2 as a refrigerant and AGMD ***Paul Byrne**, Salma Roussel, Mostafa Dahbani, Thierry Maré*	**264** Beyond energy efficiency: The broader advantages of semi-closed reverse osmosis (SCRO) desalination ***Qianhong She**, Zijing Mo, Yifu Xiao, Anthony Fane*	**62** Redefining SWRO pretreatment through ceramic membrane technology ***Ernst Lutz**, Patrick Buchta, Daniel Arias, Douglas Espin*
8:50	**68** Ladder electrodialysis enables efficient up-cocentration of brines and acids *Cong Liu, Ming Tan, **Yang Zhang***	**172** Sustainable concentration of brine from a reverse osmosis plant through the intgration of solar membrane distillation ***Isabel Requena**, Alba Ruiz-Aguirre, Juan Antonio Andrés-Mañas, Juan Diego Gil, Guillermo Zaragoza*	**205** Active batch reverse osmosis: Next-generation membrane desalination for high-efficiency produced water reuse ***Christine Kleffner**, Quantum Wei, Arian Edalat*	**178** Optimization of pretreatment during high suspended solids episodes ***Irene Ochoa Marchán**, Domingo Zarzo, Patricia Terrero, Rafael Buendía*
9:10	**42** Experimental evaluation of multi-stage, multi-pass (batch) electrodialysis desalination brackish water at pilot plant scale ***Jonathan Bessette**, Andria Jones, Shane Pratt, Ben Judge, Amos Winter*	**170** Breaking the 200 g/L barrier in membrane distillation: Experimental performance of an integrated solar-driven pilot ***Frederico Felizardo**, Alejandro Bueso, Maria Helena Novais, Guillermo Zaragoza, Pedro Horta*	**247** Survival analysis for the dynamic prediction of gypsum scaling risk in batch reverse osmosis systems ***Natasha Wright**, Ali Abdelkawi*	**243** An innovative and sustainable pretreatment design for flexible and robust operation ***Javier Cañas Jimenez**, Jesus Gimenez-Rico, Luis Miguel Garcia, Belen Gutierrez*
9:30	**38** Advancing Morocco's water future through sustainable solar-powered electrodialysis: a simulation-based economic analysis ***Basma Bachiri,** Mohamed Taky*	**207** Performance enhancement of air-gap membrane distillation using TiO_2/GO-modified PVDF-HFP membranes ***Hamad Alromaih**, Patricia Gorgojo, Maria Perez-Page*	**50** Elevating recovery rate with osmotically assisted and ultra-high-pressure reverse osmosis ***Rolando Bosleman,** Richard Stover*	**19** Ozonation of seawater: Structural trends and salinity-driven byproduct formation via non-target HRMS *Kourosh Nasr Esfahani, Antonino Di Bella, Oronzo Santoro, Paolo Roccaro, **Domenico Santoro***
9:50		**37** Comparative life cycle assessment of a brine treatment plant in Morocco under different energy sources ***Yassine Soumbati,** Zeeshan Arshad, Almotasembellah Abushaban, Youssef Belmabkhout, Mohamed Chaker Necibi*	**17** A stepwise approach to use nanofiltration membranes instead of RO to produce drinking water at high recoveries ***Alexei Pervov,** Vyacheslav Dzyubenko*	**277** Innovative pretreatment processes for next-generation SWRO desalination plants *Abdessamad Belgada*
10:10-10:30	**Coffee break**			
10:30-11:40	**Panel session Misconceptions Affecting Social Perception and Acceptance of Desalination. Co-organised by EDS and the Expert Group on Desalination of Water Europe. Sponsored by ONEE.**			

Wednesday morning 24 June 2026

	Session 21 PFAS and pollutants removal	Session 22 Membrane distillation II	Session 23 Novel membrane materials	Session 24 Advancements in pre- and post-treatment
11:40	**20** Integrated closed-circuit RO–VUV system for PFAS and micropollutant degradation via molecular uncoupling *Ehsan Khorshidi Nazloo,* ***Domenico Santoro***	**80** Harnessing light for water: Photothermal membrane distillation for sustainable desalination ***Mohamed Khayet,*** *A. Askir, S. Díaz-Luz, C. García-Payo, F. Aziz*	**114** Nanomaterials use in desalination: From promise to reality ***Hassan Arafat,*** *Mariam Ouda, Enas Nashef, Shadi Hasan, Faisal Shahzad, Tarek Lemaoui*	**272** Submerged UF on the rise again: DuPont Inge ultrafiltration technology in submerged mode ***Christian Staaks****, M. Hoffmann, M. Riemer, M. Heijnen*
12:00	**40** Removal of PFAS from water using onion peels biochar ***Nawaf Bin Darwish****, Abdulrahman Alalaw*	**28** Comparative modeling and evaluation of polypropylene and PVDF hollow-fiber membranes for enhanced AGMD performance *Ahmed Geweda, Ahmed Omera,* ***Mohammed Antar***	**25** Polymers of intrinsic microporosity for high performance desalination *Mahmoud Abdulhamid*	**181** Ultrafiltration and microfiltration: Going beyond the standard operation and maintenance solutions to extend membrane life ***Dan Freeman****, Raul Gonzalez, Fiona Finlayson, Javier Nicolas Martinez, Natasha O'Hara*
12:20	**248** Enhancing RO system design: Integration of arbitrary molecule rejection simulation for PFAS and emerging contaminants ***Harish Warsono****, Takumi Kobayash*	**202** Conventional and emerging membrane technologies for efective treatment of textile finishing wastewater: Differences and advantages ***Shara Pérez Mateos****, Carmen María Sánchez-Arevalo, Esperanza M. Garcia-Castello, Antonio Rodriguez-Lopez, María Cinta Vincent-Vela, Beatriz Elena Cuartas-Uribe*	**79** Enhanced desalination performance of a metal-organic framework@activated carbon hybrid material ***Imane Souhil,*** *Mohamed Anouar, Asmaa Msaad, Oumaima Azhar, Amal Adli, Yazid Zayd Abalhate, Youness Benaarif, Adil El Achhab, Younes El Goumi, Asmaa Dghoughi, Youssef Lghazi, Mounir Belbahloul*	**100** Next-generation post-treatment: Driving efficiency and resource recovery ***Nicholas Nelson****, Bouazza Ihyane, Jan Stemann*
12:40	**262** Enhancing PFAS removal: Innovative plasma-treated TiO_2 photocatalysts on Unisol membranes for advanced water treatment ***Somayeh Allahyari****, Nader Rahemi, Mohammad Alizadehfard*	**107** Coupled thermodynamic analysis, process modeling, and DCMD experiments for sustainable water recovery from steel industry effluent ***Hussein Fairousha Sulaiman****, Simon Díaz-Quezada, Imen Bousrih, Aamer Ali, Cejna Anna Quist-Jensen*	**152** Development of a low-cost pozzolan-based ultrafiltration membrane coated with purified red clay for dye removal ***Jamyla Naim****, Sanaa Adlane, Manal Idgharnane, Brahim Achiou, Kateryna Fatyeyeva, Abdelleh Aaddane, Mohamed Ouammou, Saad Alami Younssi*	**75** Optimizing calcite contactor remineralization process: a techno-economic framework for desalinated drinking water ***Bouazza Ihyane****, Jan Stemann, Nicholas Nelson*
13:00–14:00 Lunch				

Wednesday afternoon 24 June 2026

	Session 25 Minimum and zero liquid discharge (MLD, ZLD) schemes	Session 26 Reverse osmosis membranes	Session 27 Desalination in policies and societal impacts	Session 28 Special session for the EXBRINER project
14:00	**160** Minimizing liquid discharges in large-scale SWRO desalination: An integrated MLD design approach *Elena Crespo Olazabal*	**110** New seawater fouling resistant low-energy reverse osmosis element: Introducing FILMTEC™ SW30XLE-400/34 membrane element ***David Arias**, Guillem Gilabert-Oriol, Gerard Massons, Maria Perez-Macia*	**39** Public acceptance of desalinated and reclaimed water: Evidence from Spain *Sofia Tirado Sarti*	**284** Nanocomposite hydrogels for single step water purification and quality monitoring ***Despina Fragouli,** Fatemeh Norouzi, Athanassia Athanassiou* **294** Development of MOF-embedded cryogels for advanced water treatment ***Maria Iliopoulou**, Despina Fragouli* **290** Gatekeepers of ions: Functionalized UiO 66 multilayers for selective separation ***Muhammad Ahsan Khan**, Bart Van der Bruggen* **287** Investigation of solid-liquid Interface Interactions of NiSe and CoSe for applications in desalination and mineral recovery ***Tsotne Dadiani**, Danit Boukhvalov, Gianluca D'Olimpio, Antonio Politano* **283** Polymer composites for photothermal desalination ***Athanassia Athanassiou**, Despina Fragouli* **285** Photothermal graphene-based membranes meets sunlight: Efficient brine valorization ***Sergio Santoro**, Antonio Politano, Roviel Berhane Zegeye, Alula Selomon Embay, Loredana De Bartolo, Efrem Curcio*
14:20	**27** Advanced treatment of contaminated groundwater: achieving near-zero liquid discharge through a multibarrier approach *Lorenzo Craveri, **Erica Bertozzi**, Marco Malaguti, Gabriele Copetti, Davide Cerrina, Alessandro Trombetta, Valentina Rosetti, Alberto Tiraferri*	**33** Confined water channels in polyamide RO membranes for energy-efficient desalination *Harutoki Shimura*	**116** Integrating desalination and indirect potable reuse for urban water resilience in Mediterranean cities ***Jordi Molist**, Antoni Munné*	
14:40	**168** Scaling-free gypsum and water recovery from pulp and paper wastewater via membrane crystallization *Imen Bousrih, Simón Diego Díaz Quezada, Cejna Anna Quist-Jensen, Aamer Ali*	**174** Correlating pressure drop in spacer-filled RO channels with membrane deformation ***Luigi Ranieri,** Bastiaan Blankert, Cristian Picioreanu*	**275** Challenges and opportunities of blending desalinated water with conventionally treated water for a stable potable water supply – A UK focused case study ***Jawad Mustafa**, Alex Mead, Abraham Negaresh*	
15:00	**142** Modular tubular seeded AGMDCr for near-ZLD operation and selective salt recovery ***Stefanie Flatscher,** Mark W. Hlawitschka*	**81** Pacific Ocean seawater desalination using electro-active reverse osmosis membranes ***Arian Edalat,** Subir Bhattacharjee, David Baarck, Derrick Dlamini, Arash Tayyebi*	**282** Policy and regulatory framework for desalination in Oman - A successful model for sustainable sector expansion *Saud Al Shidhani*	
15:20	**229** Universal electrified pretreatment system for high recovery of brines ***Andrea Achilli,** Mervin Lim, Tenzin Phakdon, James Farrell*	**182** Counter-current cascades of RO membranes: A tool to enhence perrformance and overcome membrane ageing in desalination ***Youness Kouzi**, Fatima Zohra Charik, Saad Alami Younssi, Murielle Rabiller-Baudry*	**299** An introduction to AMTA's New Guideline for Membrane System Safety and Reliability (G-002) for membrane desalination facilities *Doug Eisberg*	
15:40–16:00 Coffee break				

Wednesday afternoon 24 June 2026

	Session 29 Low-cost ceramic membranes	Session 30 Intake	Session 31 New concepts for desalination	Session 32 Special session for the EXBRINER project
16:00	**1** Advancing oily wastewater treatment with an innovative and cost-efficient clay-based ceramic membrane ***Yehia Manawi**, Viktor Kochkodan*	**48** Why FEED design of seawater intakes is the key to prevent future head loss ***Harry Polman,** Hugo Costa, Mario Valente*	**57** Gravitational vapor compression desalination (GVCD) – a breakthrough for this millennia ***Ratul Das**, Ruben Gomez, Khaled Bandar Alsaud, Eusebi Nomen, Thomas Altmann*	**288** Influence of objective selection on VMD module design and global performance: A comparative study between permeate flowrate vs. flux-based optimization ***Indira Chimanlal**, Gina Alfonso, Aras Ahmadi, Corinne Cabassud* **286** Hybrid photothermal membrane distillation-selective electrodialysis for enhanced lithium recovery from hypersaline brines ***Roviel Berhane Zegeye,** Ramato Ashu Tufa, Sergio Santoro, Bruno Marco Inzillo, Marco Aquino, Pietro Argurio, Efrem Curcio* **289** Magnesium sulphate recovery from multistage seawater nanofiltration brine using photothermal membrane crystallization ***Asif Saud**, Bruno Marco Inzillo, Sergio Santoro, Aamer Ali, Efrem Curcio, Cejna Anna Quist Jensen* **236** Effect of temperature on NaOH production and energy consumption from seawater brines by using electrodialysis with bipolar membranes ***Anastássia Lima**, Júlio Lopes Rodriguez, Elena Guillen Burrieza, José Luis Cortina Pallas* **291** Hypersaline brine valorization using cation exchange membrane: Experimental and modelling approach ***Federico Dei Sommi**, Roman Kodým, Jaromír Hnát, Karel Bouzek* **292** 3D printing of profiled ion-exchange membranes ***Mekhna Venu,** Claudia Galinha, Sylwin Pawlowski, Joao Crespo* **293** Organic fouling of anion exchange membranes ***Alula Selomon Embaye**, Antonella Piscioneri, Maria Penelope De Santo, Ramato Ashu Tufa, Sergio Santoro, Efrem Curcio, Loredana De Bartolo*
16:20	**301** Bifunctional ceramic membranes from lay and spent coffee grounds for selective removal of pharmaceuticals and textile dyes ***Raja Ben Amar**, Feryelle Aouay, Afef Attia, Lasâad Dammak*	**72** Tunnelling solutions for water intakes and brine outlets in desalination plant construction *Raphael Sistermans*	**74** Development and experimental testing of a sorption-based desalination + cooling system ***Valeria Palomba**, Antonio Fotia, Matteo Calò, Walter Mittelbach, Andrea Frazzica*	
16:40	**250** Enhancement of microfiltration performances of pozzolan membrane by incorporation of micronized phosphate and its application *Dounia Beqqour*	**210** Transition Box remediation: a modular approach to underwater infrastructure renewal ***Irene Ochoa Marchán**, Domingo Zarzo, Patricia Terrero, Rafael Buendía*	**136** Binary LiCl–$CaCl_2$ composite adsorbents for low-temperature adsorption desalination ***Antonio Fotia**, Andrea Frazzica, Valeria Palomba, Vincenza Brancato, Roberta De Salvo*	
17:00	**138** Toward sustainable desalination: Low-cost ceramic membranes and industry 4.0 integration for enhanced anti-fouling performance ***Abdelbast Karbal,** Hassan Naanani, Fouad Alloun, Mustapha Faraji, Driss Bougmoum, Essadki Abdelhafid, Abdeslam El Bouari*	**77** Maintaining intake flow: Cleaning and inspection of seawater intake pipelines for desalination plants *Pilar Vera-Rodriguez, Simon Bell, **Paul Newbury***	**217** Flocean One – The world's first large scale subsea desalination demonstrator ***Tor-Anders Rusvik**, Christian Abelsson*	
17:20	**222** Treatment of seawater using a novel low-cost ceramic membrane fabricated with clay and food waste ***Sara Bouk**, Laila Bennani, Yassine Rakcho*	**9** Recent designs of marine installations for desalination plants in Morocco ***Eloy Pita**, Pablo Pita, Mario Sanchez-Barriga, Liliana Quispealaya, Lucas Martin, Alberto Rivas*	**61** Subsea desalination energy advantage: a comparative analysis with terrestrial RO facilities ***Harith Alomar,** Matias Cornejo, Antoine Vuillermet, Hugo Harstad*	
17:40	**252** Low-cost geomaterial-based membranes in service of seawater desalination ***Brahim Achiou**, Saad Alami Younssi, Mohamed Ouammou, Mohamed Bouhria, Abdellah Aaddane, Jamal Bennazha*	**34** Early warning for marine biofouling risks at seawater intake of coastal SWRO plants ***Harry Polman**, Patricia González, Kasper Kusters, Sandra van Amsterdam*	**126** Floating power/water barges for remote islands ***Vassilis Deligiannis,** Evdokia Fotiadou*	
20:00	**Gala event**			

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	Session 33 Regional case study experiences	Session 34 Green hydrogen	Session 35 Desalination and the environment	Session 36 Plant design and optimization
9:20	**23** Brine-based backwash for ultrafiltration systems in seawater desalination: Chtouka (Agadir) plant – case study *Manuel Alberto López Martín*	**204** Integration of a continuous electrodeionisation process with a desalination plant for UPW production ***Simona Maria Asaro****, Andrea Culcasi, Dario Grano, Alessandro Tamburini, Giorgio Micale, Andrea Cipollina*	**94** Seawater corrosion mitigation using plant-derived inhibitors: Electrochemical insight and efficiency ***Oumaima Azhar****, Imane Souhil, Asmaa Msaad, Mohamed Anouar, Mohamed Merouane El Hammoumi, Abdelhadi El Bachiri, Amal Adli, Yazid Zayd Abalhate, Youness Benaarif, Adil El Achhab, Mounir Belbahloul*	**30** How to design a desalination plant for the safe transport of chemicals *Francisco Javier Lorenzo Moral*
9:40	**267** Thin-film nanocomposite reverse osmosis membranes for sustainable seawater desalination: The Dakhla SWRO project in Morocco *Alvaro Lagartos*	**151** Water reuse vs. desalination: Technical feasibility, design and economics of ultra-pure water production for green hydrogen ***Jan-Hendrik Imholze****, Patrizia Moosmann, Stefan Krahl, Jürnjakob Dugge, Karen Stummeyer*	**108** Desalination brine discharges: Physicochemical characteristics, environmental impacts and valorization strategies ***Nawal Sifa****, Anas Aguelmous, Abdessamad Belgada*	**112** Long term performance of DuPont ultrafiltration at the Limassol desalination plant in Cyprus *Gerard Massons, Guillem Gilabert-Oriol, Lorena Barbera, Erineos Koutsakos, Menahem Priel*
10:00	**139** Demineralization of brackish water for irrigation gardening and dairy sector in the commune of Jraifia ***Lahcen Hasnaoui,*** *Alae Ayyad, Jamila Oudich*	**128** Production of water of high purity by membrane distillation for renewable hydrogen production ***Alba Ruiz Aguirre****, Bernardo Ventura, Robinson Johan Ramírez-Gil, Guillermo Zaragoza*	**58** Subsea desalination plant brine discharge and environmental impact ***Harith Alomar****, Matias Cornejo, Antoine Vuillermet, Jo Jernsletten, Hugo Harstad*	**55** Optimization methodology for design and performance of SWRO desalination plants *Fernando Javier Suarez Perez*
10:20	**133** Machine learning-enabled digital twin for autonomous optimization of containerized reverse osmosis desalination systems *Bouchra Mahrouch,* ***Karim Kadmiri****, Idriss Azhari*		**253** Coupled TELEMAC-3D–TOMAWAC modeling of brine and thermal discharges for optimal outfall–intake design on Atlantic coasts *El Mehdi Chagdali*	**47** Optimization of SWRO performance through single- and multi-OEM membrane hybridization ***Ahmed Yousry,*** *Justin Robert, Tariq Nada, Mohammed Haroon Siyech, Ahmad Alharthi*
	10:40-11:00 Coffee break			

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	Session 37 Thermal desalination	Session 38 Desalination and sustainability	Session 39 Energy recovery system	Session 40 Plant operation
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11:20	**208** Integrated solar micro gas turbine–driven sea-water desalination combining high-recovery SWRO and zero liquid discharge ***Rafael González Almenara**, Lourdes García-Rodríguez, Néstor Santana-Hernández, Agustín Delgado-Torres, Jesús Montes-Sánchez, Jorge Camacho-Espino, Bartolomé Ortega-Delgado, Nicolás Aranda-Pérez*	**244** Assessment of energy efficiency of the DESALRO 2.0® plant installed at the Canary Islands Institute of Technology ***Lourdes García-Rodríguez**, Rafael González-Almenara, Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, Sigrid Arenas-Urrea*	**242** Active energy recovery devices to enable lower power consumption - MPE 70 operation results *Sebastian Liebs, **Francisco Jimenez Castellanos***	**179** Management of placing SWRO desalination plants in standby mode: Engineering challenges ***Erineos Koutsakos**, Menahem Priel, Aristos Loucaides, Christie Stylianou, Louisa Christodoulou*
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12:20	**31** SWAP™: Ultra-low-energy, atmospheric-pressure desalination with high-salinity tolerance *May Akrawi, Hill Kemp, **Alkis Strompoulis***	**192** Decarbonization and sustainability in desalination ***Domingo Zarzo**, Patricia Terrero*	**96** Comparative evaluation of pressure-exchange and turbine ERDs under varying feed-flow conditions ***Haytham Abdelfatah**, Eli Oklejas*	**71** Data-driven optimization in large-scale RO facility: a comprehensive case study in operational excellence ***Elad Barak**, Micha Oestereich*

12:40-13:20 Innovation Panel session with the finalists of the Miriam Balaban Innovation Award

13:20-14:20 Lunch

14:20-15:20 Closing ceremony and the announcement of the winner of the Miriam Balaban Award

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